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APPLICATION NO. FILING DATE		ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/388,123 08/31/1999		8/31/1999	ISAAC SAIAS	9392-0011-99	3415	
20582	7590	11/01/2002		<u>-</u>		
PENNIE &		DS LLP	EXAMINER			
1667 K STR SUITE 1000		2000	BRODA, SAMUEL			
WASHINGTON, DC 20006				ART UNIT	PAPER NUMBER	
				2123		
			DATE MAILED: 11/01/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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•		Applicati	on No.	Applicant(s)	1
Office Action Summary		09/388,1	23	SAIAS, ISAAC	
		Examine	•	Art Unit	
		Samuel E	*	2123	
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the c	correspondence addre	SS
A SH THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication to period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory peure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no ev . reply within the stat riod will apply and w atute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nety filed s will be considered timely, the mailing date of this comm D (35 U.S.C. § 133).	unication.
1)⊠	Responsive to communication(s) filed on	28 August 200	0 .		
2a)□		This action is			
3)□	Since this application is in condition for all			rosecution as to the n	nerits is
Disposit	closed in accordance with the practice und ion of Claims				
4)⊠	Claim(s) <u>1,7-9 and 14-33</u> is/are pending in	• •			
	4a) Of the above claim(s) is/are with	drawn from co	nsideration.		
5)[Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1,7-9 and 14-33</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)	Claim(s) are subject to restriction an	id/or election r	equirement.		
· · · _	ion Papers	•			
· —	The specification is objected to by the Exam				
Ю	The drawing(s) filed on 31 August 1999 is/al Applicant may not request that any objection to		•		
11)	The proposed drawing correction filed on		•		
•••	If approved, corrected drawings are required in	-		ved by the Examiner.	
12)	The oath or declaration is objected to by the	• •			
	under 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a claim for fore	eian priority un	der 35 U.S.C. & 119(a)-(d) or (f)	
· ·	☐ All b)☐ Some * c)☐ None of:	g p		, (0) 0 : (1).	
- /-	1. ☐ Certified copies of the priority docum	ents have bee	n received.		
	2. Certified copies of the priority docum			on No.	
* 5	3. Copies of the certified copies of the papplication from the International See the attached detailed Office action for a	oriority docume Bureau (PCT	ents have been receive Rule 17.2(a)).	ed in this National Sta	ge
14)⊠ <i>A</i>	Acknowledgment is made of a claim for dome	estic priority u	nder 35 U.S.C. § 119(e	e) (to a provisional ap	plication).
) The translation of the foreign language Acknowledgment is made of a claim for dom		=		
Attachmen	-	p	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
2) 🔯 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(r (PTO-413) Paper No(s). ₂ Patent Application (PTO-15	

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DETAILED ACTION

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1. Claims 1, 7-9, and 14-33, added or amended in a <u>Preliminary Amendment</u> dated 28 August 2000, have been examined.

Drawings

2. The Draftsperson has objected to the drawings; see the copy of Form PTO-948 for an explanation.

Claim Rejections - 35 U.S.C. § 112, First Paragraph

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 3.1 Claims 1, 7-9, and 14-33 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- 3.2 Regarding independent claims 1, 14, and 19, the disclosure fails to provide any information regarding:

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1. the choice of a value of the integer "n" used to calculate the n-th eigenvector of the matrices that will lead to an accurate result and avoid the problem of diffusion; and

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2. the calculation of a "connectivity threshold" used to detect an emergent concept.

The Specification states on page 7 line 25 that "in step 110, the method 100 of the present invention selects a value for n" and additionally states at lines 30-35 that other values of n are selected. (See also flowchart of Fig. 1). The Specification provides no description regarding how each value of n is selected, although page 7 lines 17-18 states that "[1]arge order eigenvectors such as the 50^{th} non-principal eigenvector do a beautiful job at isolating smaller communities."

Additionally, even if the Specification taught one skilled in the art how to select a proper value of *n* to accurately locate an emergent concept, the Specification fails to state what kind of calculations are performed on the eigenvectors to derive a "connectivity threshold" corresponding to a collection of sites.

Taken as a whole, only with undue experimentation could one reasonably skilled in the art make and/or use the invention, because of the omissions in the subject matter described in the Specification.

3.3 Claims 7-9, and 15-18, and 20-33 are dependent on one of independent claims 1, 14, and 19, and are rejected using the same analysis.

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Claim Rejections - 35 U.S.C. § 112, Second Paragraph

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4.1 Regarding claims 1, 7-9, and 14-33, the term "minimum connectivity threshold" is a relative term which renders each claim indefinite. This term is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Indication of Allowable Subject Matter

5. Subject to rejections listed above, and based on the prior art located to date and made of record, claims 1, 7-9, and 14-33 do not appear to be taught or rendered obvious, and is indicated as allowable subject matter.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure. Reference to Agrawal et al, U.S. Patent 6,233,575 issued 15 May 2001 and filed on 23 June 1998, is cited as teaching a method of organizing a database into a hierarchy of topics.

Reference to Botafogo et al, "Structural Analysis of Hypertexts: Identifying Hierarchies and Useful Metrics", ACM Transactions on Information Systems, Vol. 10 No. 2, pp. 142-180 (April 1992), is cited as teaching metrics used to indicate the intrinsic interconnectedness of hypertext documents.

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Reference to Weiss et al, "HyPursuit: A Hierarchical Network Search Engine that Exploits Content-Link Hypertext Clustering", Proceedings of the 7th ACM Conference on Hypertext, pp. 180-193 (1996), is cited as teaching similarity-based clustering using a hyperlink similarity function.

Reference to Chen, "Structuring and Visualising the WWW by Generalised Similarity Analysis", Proceedings of the 8th ACM Conference on Hypertext, pp. 177-186 (1997), is cited as teaching generalized similarity analysis.

7. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Samuel Broda, whose telephone number is (703) 305-1026. The Examiner can normally be reached on Mondays through Fridays from 8:00 AM – 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Kevin Teska, can be reached at (703) 305-9704. The fax phone numbers for this group are:

- (703) 746-7238 --- for communications after a Final Rejection has been made;
- (703) 746-7239 --- for other official communications; and
- (703) 746-7240 --- for non-official or draft communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist, whose telephone number is (703) 305-3900.

SAMUEL BRODA, ESQ.